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DATE MAILED: 06/17/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,090	10/10/2003	Zbigniew S. Piec	81602/0703	3030
22242 75	590 06/17/2004		EXAM	INER
FITCH EVEN TABIN AND FLANNERY 120 SOUTH LA SALLE STREET			LE, DANG D	
			ARTIRUT	DADED MUMBED
SUITE 1600			ART UNIT	PAPER NUMBER
CHICAGO, IL	L 60603-3406		2834	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/684,090	PIEC ET AL.			
		Examiner	Art Unit			
		Dang D Le	2834			
Period fo	The MAILING DATE fthis communication approximation of the second seco	ppears on the cover sheet with the c	rrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	1)⊠ Responsive to communication(s) filed on <u>26 May 2004</u> .					
2a)⊠	This action is FINAL . 2b) ☐ Th	nis action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-13,17 and 18 is/are rejected. 7) Claim(s) 14-16 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	t(s)					
1) Notic	1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
3) 🔀 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date <u>01/21/04</u> .	Paper No(s)/Mail Da 5) Notice of Informal Page 6) Other:	ate atent Application (PTO-152)			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 5/26/04 along with the Unexpected Result Declaration have been fully considered but they are not persuasive. Wilkin et al. already discloses the unexpected result declared by the applicant. Wilkin et al. indicates that "... this arrangement of the brushes and contact surfaces results in reduced brush wear". See column 1, lines 42-44.

In addition, although "Wilkin who advocates only that the direction of current flow be the same in each current transfer device", the claims do not clearly recite this feature. (However, the examiner is not clear that if the direction of current flow is not the same in each current transfer device, how electric current can flow from the first stator to the second stator and vice versa.)

The applicant also indicated "there is clearly no recognition of the dramatic and unexpected reduction in brush wear that is a consequence of maintaining all the brushes at negative plurality (polarity?)". However, Wilkin et al. discloses the brushes can be maintained at negative polarity in column 1, lines 39-40.

In response to applicant's argument based upon the age of the references, contentions that the reference patents are old are not impressive absent a showing that the art tried and failed to solve the same problem notwithstanding its presumed knowledge of the references. See *In re Wright*, 569 F.2d 1124, 193 USPQ 332 (CCPA 1977).

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As a result, the rejection is still deemed proper and repeated hereinafter.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-13, 17, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Wilkin et al. (3,648,088)

Regarding claim 1, Wilkin et al. shows a homopolar machine comprising:

- A shaft (14);
- An armature (13) coupled to the shaft and mounted so as to rotate with said shaft;
- At least two stators (11a, 12a) that encircle the armature,
- A negative bus connected to a first stator,
- A positive bus (16b) connected to a second stator,
- A first negative brush (17a) carried by said first stator for contact with said armature at one location (right side in Figure 1); and
- A second negative brush (16a) carried by said armature for contact with said second stator, as a result of their negative charge, the lifetime of said brushes is substantially extended compared to brushes positively charged (column 1, lines 38-43).

. 1

Regarding claims 2-13, 17, and 18, it is noted that Wilkin et al. also shows all of the limitations of the claimed invention.

Allowable Subject Matter

4. Claims 14-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Information on How to Contact USPTO

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dang D Le whose telephone number is (571) 272-2027. The examiner can normally be reached on Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

6/15/04

DANG LE PRIMARY EXAMINER